

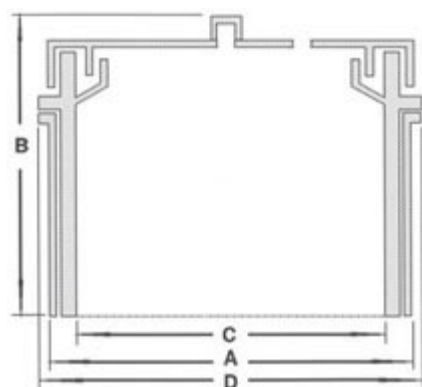
X-RAY Spectrochemical Sample Preparation Equipment & Accessories

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QUICK REFERENCE CHART for XRF SAMPLE CUPS

XRF Sample Cup Dimensions, Attributes and Instrument Compatibility

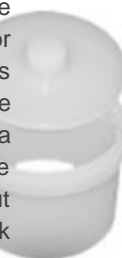
XRF Sample Cups are available in a variety of dimensions, attributes and conveniences. To match a sample cup to the sample holding device (metal sample cup, rotating tray, slide platform, fixed stage, etc.) supplied with the instrumentation measure the inside diameter, height and aperture. The following generic sample cup in conjunction with the chart serves as a guide for selecting the most appropriate size. The attributes of the various types of sample cups are also indicated to better serve the application. Reference to a Series constituting specific details of the selected sample cup narrows the selection process. For more detailed information on any sample cup in a Series, simply click on a Series Number.



SERIES 1000: Double and Single Open-Ended Sample and Sulfur Analyzer Cups with TrimLess™ Thin-Film Sleeve and ThermoPlastic™ Seal Venting Features



Double open-ended Cells enable pre-attachment of thin-film sample support windows in advance and top sample filling for analysis in air or helium. Single open-ended Cells integrate External Overflow Reservoirs and puncturable ThermoPlastic™ Seals for differential pressure equalization. In common with double and open-ended Cells are extra wide TrimLess™ thin-film sleeves designed to envelope and secure thin-film sample support windows for taut sample planes without trimming extraneous thin-film. Integrated flange on outer Cell neck diameter mechanically stops overextending Sleeve attachment for reproducible preparations and x-ray data. Cat. No. 1095 is supplied with a vented cap. Available in nominal 32, 39 and 43mm diameters.



Series	Cat. No.	O.D.	Aperture	Height	Max. Dia.	Equipment Compatibility
	1060	1.23"	0.93"	0.97"		Bruker, Jordan, Kevex,

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XRF Sample Cups and Accessories

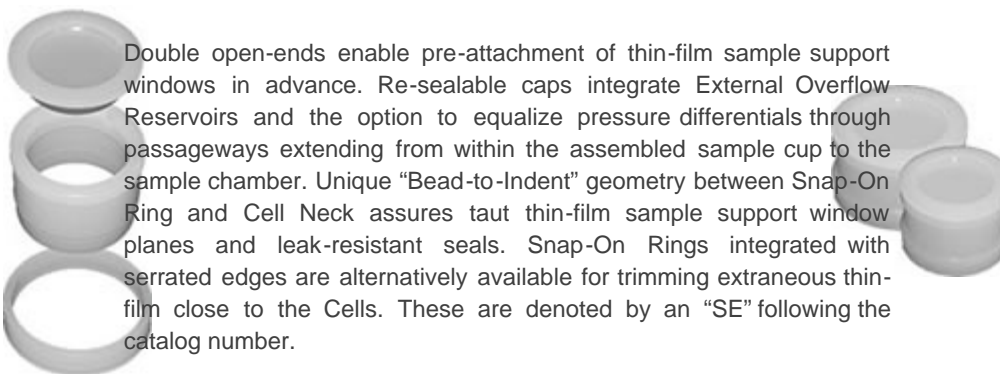
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1000		(31.2mm)	(23.5mm)	(24.7mm)	N/A	Metorex, Panalytical, Philips, Rigaku, Siemens, Spectrace, Spectro, Thermo	
	1065	1.23" (31.2mm)	0.93" (23.5mm)	0.97" (24.7mm)			
	1070	1.54" (39.0mm)	0.92" (23.3mm)	1.20" (30.6mm)			
	1075	1.50" (38.2mm)	0.89" (22.5mm)	1.20" (30.6mm)			
	1080	1.68" (42.7mm)	0.80" (20.2mm)	1.44" (36.6mm)			1.83" (46.6 mm)
	1083	1.69" (43.0mm)	0.73" (18.6mm)	1.44" (36.6mm)			1.84" (46.7mm)
	1085	1.68" (42.7mm)	0.80" (20.2mm)	1.44" (36.6mm)			1.83" (46.6mm)
	1095 (See 2195)	1.71" (43.4mm)	1.57" (40.1mm)	1.50" (38.2mm)			1.77" (45.0mm)

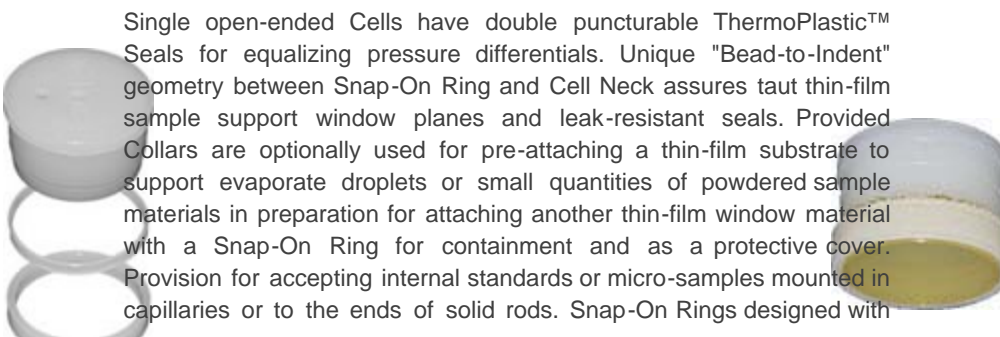
SERIES 1300: Double Open-Ended Sample Cups, Top Sample Filling, Re-Sealable External Overflow Reservoir



Double open-ends enable pre-attachment of thin-film sample support windows in advance. Re-sealable caps integrate External Overflow Reservoirs and the option to equalize pressure differentials through passageways extending from within the assembled sample cup to the sample chamber. Unique "Bead-to-Indent" geometry between Snap-On Ring and Cell Neck assures taut thin-film sample support window planes and leak-resistant seals. Snap-On Rings integrated with serrated edges are alternatively available for trimming extraneous thin-film close to the Cells. These are denoted by an "SE" following the catalog number.

Series	Cat. No.	O.D.	Aperture	Height	Max. Dia.	Equipment Compatibility
1300	1330	1.21" (30.7mm)	0.93" (23.5mm)	0.96" (24.4mm)	N/A	ARL, Asoma, Bruker, Fisons, Jordan, Kevex, Metorex, Oxfordd, Panalytical, Philips, Rigaku, Siemens, Spectrace, Spectro, Thermo
	1330-SE					
	1340	1.53" (39.0mm)	0.91" (23.1mm)	1.27" (32.2mm)		

SERIES 1400: Single Open-Ended, ThermoPlastic™ Seal Venting, Internal Standard Mounting and Micro-Sample Attachment Provisions



Single open-ended Cells have double puncturable ThermoPlastic™ Seals for equalizing pressure differentials. Unique "Bead-to-Indent" geometry between Snap-On Ring and Cell Neck assures taut thin-film sample support window planes and leak-resistant seals. Provided Collars are optionally used for pre-attaching a thin-film substrate to support evaporate droplets or small quantities of powdered sample materials in preparation for attaching another thin-film window material with a Snap-On Ring for containment and as a protective cover. Provision for accepting internal standards or micro-samples mounted in capillaries or to the ends of solid rods. Snap-On Rings designed with

serrated edges are alternatively available for trimming extraneous thin-film close to the Cells. These are denoted by an "SE" following the catalog number.

Series	Cat. No.	O.D.	Aperture	Height	Max. Dia.	Equipment Compatibility
1400	1430	1.21" (30.7mm)	0.88" (22.3mm)	0.97" (24.5mm)	N/A	ARL, Asoma, Bruker, Jordan, Fisons, Kevex, Metorex, Oxford, Panalytical, Philips, Rigaku, Siemens, Spectrace, Spectro, Thermo
	1430-SE					
	1440	1.55" (39.3mm)	0.94" (24.0mm)	1.27" (32.3mm)		
	1440L	1.55" (39.3mm)	1.38" (35.1mm)	1.27" (32.3mm)		Jordan, Oxford, Rigaku

SERIES 1500: Double Open-Ended Sample Cups, Top Sample Filling and Microporous Film Attachment Provision

Double open-ended Cells enable top sample filling in advance by pre-attachment of thin-film sample support windows with one of two supplied Snap-On Rings. The second Snap-On Ring is used for attaching optionally available Microporous Film to the top end of the Cell. Optionally available Vented Sample Cup Caps are also used on the top open end for differential pressure equalizing. Unique "Bead-to-Indent" geometry between Snap-On Ring and Cell Neck assures taut thin-film sample support window planes and Microporous Film attachment with leak-resistant seals. Snap-On Rings designed with serrated edges are alternatively available for trimming extraneous thin-film close to the Cells. These are denoted by an "SE" following the catalog number.

Series	Cat. No.	O.D.	Aperture	Height	Max. Dia.	Equipment Compatibility
1500	1530	1.22" (30.9mm)	0.94" (24.0mm)	0.95" (24.0mm)	N/A	Asoma, Bruker, Jordan, Fisons, Jordan, Kevex, Metorex, Panalytical, Philips, Rigaku, Siemens, Spectrace, Spectro, Thermo
	1530-SE					
	1540	1.55" (39.3mm)	0.90" (22.9mm)	1.22" (30.9mm)		

SERIES 1600: Slit-Vented Sample Cup Caps for 1500 Series Sample Cups

Slit-Vented Sample Cup Caps are used in conjunction with Series 1500 Sample Cups for differential pressure equalization. The interior of the slit-vented Caps integrate a series of concentric ridges that form physical barriers when attached to the Cell Necks of 1500 Series Sample Cups. The space in between the barriers serves to provide a tortuous passageway from within the sample cup and sample chamber to maintain equal pressures and avert distension or convolution of the thin-film sample support window under positive or negative pressure conditions.

Series	Cat. No.	Vented Snap-On Caps Designed For 1500 Series XRF Sample Cups
1600	1630	Vented Snap-On Cap, Interior Baffles for 1530 and 1530 -SE Sample Cups
	1640	Vented Snap-On Cap, Interior Baffles for 1540 Sample Cups

SERIES 1700: Single Open-Ended Sample Cups, Snap-Post Venting and External Overflow Reservoirs

Venting is performed by jiggling an integrated post attached to a ThermoPlastic™ Seal to rupture the seal within the External Overflow



Reservoir base. Utilizing the "Bead-to-Indent" geometry of Snap-On Ring to Cell Necks, the Series 1700 Sample Cups provide leak-resistant seals when assembled with thin-film sample support windows. Use provided Collars to deposit micro samples on thin-film substrates and the Snap-On Rings to secure them in position. Alternate Snap-On Rings with serrated cutting edges are available for trimming extraneous thin-film windows close to the Cells. These are denoted by an "SE" following the catalog number.



Series	Cat. No.	O.D.	Aperture	Height	Max. Dia.	Equipment Compatibility
1700	1730	1.21" (30.8mm)	0.91" (23.2mm)	0.97" (24.7mm)	N/A	ARL, Asoma, Bruker, Jordan, Kevex, Metorex, Panalytical, Philips, Rigaku, Siemens, Spectrace, Spectro, Thermo
	1730-SE					
	1740	1.54" (39.0mm)	0.94" (23.7mm)	1.26" (32.0mm)		

SERIES 1800: Single Open-Ended Sample Cups, External Overflow Reservoir and ThermoPlastic™ Seal Venting Provision



Exterior Overflow Reservoir is integrated with a puncturable ThermoPlastic™ Seal for establishing equalization of pressure within the sample cup and sample chamber. Unique "Bead-to-Indent" geometry between Snap-On Ring and Cell Neck assures taut thin-film sample support window planes and leak-resistant seals. Use provided Collars to deposit micro samples on thin-film substrates and the Snap-On Rings to secure them in position. Alternate Snap-On Rings with serrated cutting edges are available for trimming extraneous thin-film windows close to the Cells. These are denoted by an "SE" following the catalog number.



Series	Cat. No.	O.D.	Aperture	Height	Max. Dia.	Equipment Compatibility
1800	1830	1.22" (30.9mm)	0.87" (22.1mm)	0.96" (24.5mm)	N/A	ARL, Asoma, Bruker, Jordan, Kevex, Metorex, Panalytical, Philips, Rigaku, Siemens, Spectrace, Spectro, Thermo
	1830-SE					
	1840	1.54" (39.2mm)	0.93" (23.6mm)	1.27" (32.2mm)		

SERIES 1850: Shallow Single Open-Ended SpectroSulfur™ Analyzer Cups with External Overflow Reservoir and ThermoPlastic™ Seal Venting Provision. Useable with XOS "Sindie®" Systems and other Sulfur Analyzers



The 1850 is a popular sample cup useable with sulfur analyzers requiring a shallow cell, puncturable ThermoPlastic™ seal for venting and an integrated external overflow reservoir for collecting thermally sensitive samples tending to expand. The unique Chemplex "Bead-to-Indent" geometry between the Snap-On Ring and Cell Neck assures taut thin-film sample support window planes and leak-resistant seals. Available in nominal 43 mm diameter.



Series	Cat. No.	O.D.	Aperture	Height	Max. Dia.	Equipment Compatibility
1850 SpectroSulfur™ Analyzer Sample Cups	1850	1.69" (42.9mm)	0.77" (19.5mm)	1.41" (35.9mm)	1.87" (47.5mm)	(see also 1000 Series)

SERIES 1900: Double Open-Ended Sample Cups with Top Sample Filling

Double open-ends enable pre-attachment of thin-film sample support



windows in advance and top sample filling for applications in helium or air. "Bead-to-Indent" geometry between Snap-On Ring and Cell Neck assures taut thin-film sample support window planes and leak-resistant seals. Use provided Collars to deposit micro samples on thin-film substrates and the Snap-On Rings to secure them in position. Alternate Snap-On Rings with serrated cutting edges are available for trimming extraneous thin-film windows close to the Cells. These are denoted by an "SE" following the catalog number.



Series	Cat. No.	O.D.	Aperture	Height	Max. Dia.	Equipment Compatibility
1900	1930	1.21" (30.7mm)	0.88" (22.3mm)	0.97" (24.5mm)	N/A	ARL, Asoma, Bruker, Jordan, Fisons, Kevex, Metorex, Oxford, Panalytical, Philips, Rigaku, Siemens, Spectrace, Spectro, Thermo
	1930-SE					
	1940	1.55" (39.3mm)	0.94" (24.0mm)	1.27" (32.3mm)		
	1940L	1.55" (39.3mm)	1.38" (35.1mm)	1.27" (32.3mm)		

SERIES 1935-OX: Double Open-Ended Sample Cups and Vented Cap Replacements for Oxford Analyzers



Designed specifically as replacement cups and vented caps for Oxford analyzers requiring the user supplied L240 aluminum sample holders with interior "O" ring seals. Integrated upper flange functions as a mechanical stop by preventing overextending insertion into the aluminum sample holder ensuring reproducible x-ray data. Close tolerance fit ensures easy insertion and particularly removal in preparation for introducing another sample. Available in 31.2 mm diameter size.



Series	Cat. No.	O.D.	Aperture	Height	Max. Dia.	Equipment Compatibility
1935OX	1935-OX	1.23" (31.2mm)	1.51" (38.3mm)	1.15" (29.2mm)	N/A	Oxford

SERIES 2100: Double Open-Ended, TrimLess™ Thin-Film Sleeve Attachment, Internal Overflow Reservoir, Top Sample Filling and Vented Cap



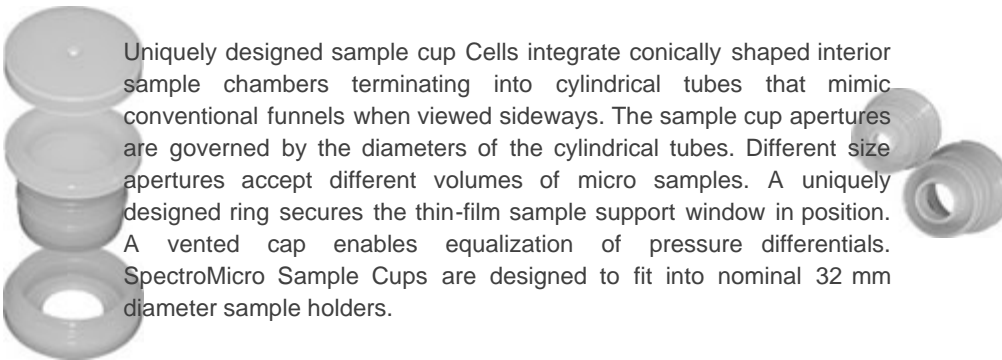
Uniquely designed integrated Internal Overflow Reservoir collects thermally sensitive and excessive sample within the Cell; serves as reference point for filling sample cups with similar volumes. Extra wide TrimLess™ Thin-Film Sleeve envelopes extraneous thin-film and eliminates trimming. Fit between Cell and Sleeve is designed to form taut thin-film sample support planes. Flange on upper outside diameter of Cell functions as a mechanical stop by preventing overextension of sleeve for reproducible x-ray data. Friction-fitting caps are vented for maintaining pressure equalization. Designed for Bruker, Panalytical, Rigaku and Spectro sample holders.



Series	Cat. No.	O.D.	Aperture	Height	Max. Dia.	Equipment Compatibility
	2132	1.24" (31.4mm)	1.15" (29.2mm)	1.04" (26.5mm)	1.36" (34.5mm)	ARL, Asoma, Bruker, Jordan, Kevex, Metorex, Panalytical, Philips, Rigaku, Siemens, Spectrace, Spectro, Thermo

2100	2135	1.35" (34.2mm)	1.16" (29.5mm)	1.10" (28.0mm)	1.46" (37.0mm)	Panalytical (MiniPal)
	2140	1.57" (39.9mm)	1.17" (29.6mm)	1.41" (35.8mm)	1.70" (43.3mm)	ARL, Asoma, Bruker (Manual S2 and S4 Systems), Kevex, Metorex, Oxford, Panalytical, Philips, Rigaku, Siemens, Spectrace, Spectro, Thermo
	2143	1.57" (39.9mm)	1.17" (29.6mm)	1.41" (35.8mm)	1.61" (41.0mm)	Bruker Automatic S-2 with XFlash® Detector and S-8 with FLEX loader
	2146	1.76" (44.7mm)	1.32" (33.5mm)	1.59" (40.3mm)	1.86" (47.3mm)	ARL Advant'X
	2195	1.71" (43.4mm)	1.57" (40.1)	1.50" (38.2mm)	1.77" (45.0mm)	Rigaku Panalytical Venus 200

SERIES 3100: SpectroMicro® Sample Cups Utilize "Funnel Shape™" Technology



Uniquely designed sample cup Cells integrate conically shaped interior sample chambers terminating into cylindrical tubes that mimic conventional funnels when viewed sideways. The sample cup apertures are governed by the diameters of the cylindrical tubes. Different size apertures accept different volumes of micro samples. A uniquely designed ring secures the thin-film sample support window in position. A vented cap enables equalization of pressure differentials. SpectroMicro Sample Cups are designed to fit into nominal 32 mm diameter sample holders.

Series	Cat. No.	O.D.	Aperture	Height	Max. Dia.	Equipment Compatibility
3100	3106	1.20" (30.6mm)	0.99" (25.3mm)	0.24" (6mm)	N/A	Panalytical, Philips, Asoma, Spectro, Meterox, Rigaku, Thermo, Jordan Valley, ARL and other instruments accommodating 32 mm diameter sample cups and applications requiring confined volumes and apertures for accepting micro sample quantities
	3110	1.20" (30.6mm)	0.99" (25.3mm)	0.39" (10mm)		
	3115	1.20" (30.6mm)	0.99" (25.3mm)	0.59" (15mm)		
	3120	1.20" (30.6mm)	0.91" (23.0mm)	0.79" (20mm)		